

**01455221 MERRILL CREEK RESERVOIR NEAR COOPERVILLE, NJ**

DELAWARE RIVER BASIN

LOCATION.--Lat 40°43'38", long 75°06'10" referenced to North American Datum of 1983, Harmony Township, Warren County, NJ, Hydrologic Unit 02040105, at dam on Merrill Creek in Harmony Township, 1.5 mi north of Cooperville, 4.5 mi northeast of Phillipsburg, and 2.8 mi upstream from mouth.

DRAINAGE AREA.--3.13 mi<sup>2</sup>.

**SURFACE-WATER RECORDS**

PERIOD OF RECORD.--March 1988 to current year.

GAGE.--Measurement from reference point. Datum of gage is National Geodetic Vertical Datum of 1929.

COOPERATION.--Records provided by the Merrill Creek Reservoir Project.

REMARKS.--Reservoir formed by zoned, compacted, earth-rockfill dam constructed in November 1987. Storage began March 1988. Total capacity at spillway elevation, 16,617,000,000 gal, elevation 929.0 ft. Usable capacity, 15,6654,000,000 gal. Reservoir used for storage of water pumped from the Delaware River through a 57-inch diameter pipe 17,000 ft long (see 01446572). Releases are made into the Delaware River through the same pipe. Reservoir is used to augment low flow in the Delaware River. Conservation release of 3 ft<sup>3</sup>/s made to Merrill Creek.

EXTREMES FOR PERIOD OF RECORD.--Maximum contents, 16,710,000,000 gal, Jan. 15, 1990, elevation, 923.3 ft; minimum (after first filling), 14,076,000,000 gal, Jan. 23, 1992, elevation 910.40 ft.

EXTREMES FOR CURRENT YEAR.--Maximum contents, 15,561,000,000 gal, Mar. 12, elevation 922.38 ft; minimum, 15,078,000,000 gal, Sept. 27, elevation 919.99 ft.

MONTHEND ELEVATION AND CONTENTS

Month	Elevation, feet	Contents, million gallons	Change in contents, equivalent in ft <sup>3</sup> /s
September	920.45	15,170	
October	920.74	15,229	+2.9
November	920.75	15,231	+0.1
December	920.88	15,257	+1.3
CALENDAR YEAR 2007			-0.7
January	920.87	15,255	-0.1
February	921.64	15,411	+8.3
March	921.76	15,435	+1.2
April	921.86	15,455	+1.0
May	921.87	15,457	+0.1
June	921.50	15,382	-3.9
July	921.14	15,309	-3.6
August	920.36	15,152	-7.9
September	920.11	15,102	-2.6
WATER YEAR 2008			-0.3